

Product characteristics

Inductive sensor

Metal thread M12 x 1

Connector

oil-resistant potting

Gold-plated contacts

Sensing range 4 mm; [nf] non-flush mountable

Electrical data

Electrical design

DC PNP

Operating voltage [V]

9...32 DC

Current consumption [mA]

< 15

Protection class

III

Reverse polarity protection

yes

Outputs

Output function

normally open

Voltage drop [V]

< 2.5

**Current rating**

- Current rating (continuous) [mA]

125; 150 (...50 °C)

- Current rating (peak) [mA]

150

Short-circuit protection

pulsed

Overload protection

yes

Switching frequency [Hz]

200

Pull-down resistor (internal) [kOhm]

2

Range

Sensing range [mm]

4

Real sensing range (Sr) [mm]

4 ± 10 %

Operating distance [mm]

0...3.25

Accuracy / deviations

Correction factors

mild steel = 1 / stainless steel approx. 0.7 / brass approx. 0.5 / Al approx. 0.4 / Cu approx. 0.3

Hysteresis [% of Sr]

1...15

Switch-point drift [% of Sr]

-10...10

Environment

Ambient temperature [°C]

-40...80

Protection

IP 67

Tests / approvals

EMC

EN 61000-4-2 ESD: 4 kV CD / 8 kV AD

EN 61000-4-3 HF radiated: 3 V/m

EN 61000-4-4 Burst: 2 kV

EN 61000-4-6 HF conducted: 3 kV

EN 55011 (Emission): class B

MTTF [Years]

2965

Mechanical data

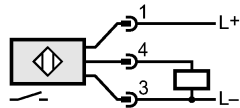
Mounting

non-flush mountable

# IF6033 - Inductive sensor - eclass: 27270101 / 27-27-01-01

Housing materials	threaded sleeve: Brass white bronze coated; active face: PC (polycarbonate); lock nuts: Brass
Weight [kg]	0.027
Displays / operating elements	
Output status indication LED	yellow
Electrical connection	
Connection	M12 connector; Gold-plated contacts

## Wiring



Accessories	
Accessories (included)	2 lock nuts
Remarks	
Pack quantity [piece]	1